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DATE MAILED: 06/12/2009

NOTICE OF ALLOWANCE AND FEE(S) DUE

35825 7590 06/12/2009 LAW FIRM OF DAN SHIFRIN

6208 Devinney Circle ARVADA, CO 80004

EXAMINER MYINT, DENNIS Y PAPER NUMBER ARTHNIT 2162

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/674,900	09/29/2003	Robert F. Bartfai	TUC920030109US1	4827	

TITLE OF INVENTION: AUTONOMIC INFRASTRUCTURE ENABLEMENT FOR POINT IN TIME COPY CONSISTENCY

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(8) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	09/14/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED.</u> THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown

B. If the status above is to be removed, check box 5b on Part B -Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This appropriate. All further indicated unless correcte maintenance fee notificat	form should be used to correspondence including d below or directed other ions.	or transmitting ig the Patent, a ierwise in Bloc	the ISSU dvance of k 1, by (a	JE FEE and PUBLICAT rders and notification of a a) specifying a new corre	ION FEE (if requestion in the requestion of the	ired). I vill be , and/or	Blocks 1 through 5 s mailed to the current (b) indicating a sepa	nould be c correspond rate "FEE	ompleted where lence address as ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block I for any change of address)					Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.				
JS825 LAW FIRM OI 6208 Devinney O ARVADA, CO 8		/2009		I be	Cer	tificate	of Mailing or Trans s) Transmittal is being ficient postage for firs ISSUE FEE address I) 273-2885, on the d	denovited	with the United il in an envelope being facsimile ed below.
									(Depositor's name)
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APPLICATION NO.	FILING DATE			FIRST NAMED INVENTOR	:	ATTO	RNEY DOCKET NO.	CONFIR	MATION NO.
10/674,900	09/29/2003	<u> </u>		Robert F. Bartfai		TU	C920030109US1		4827
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"Fee Address" indi PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A	ondence address (or Cha 1/122) attached. cation (or "Fee Address 2 or more recent) attach ND RESIDENCE DATA	nge of Correspo "Indication form ed. Use of a Cu	m istomer	2. For printing on the p (1) the names of up to or agents OR, alternati (2) the name of a sing registered attorney or 2 registered patent atte- listed, no name will be THE PATENT (print or ty data will appear on the p T a substitute for filing an	o 3 registered pater vely, le firm (having as a agent) and the nam meys or agents. If printed.	memb es of u no nam	er a 2 p to ie is 3	ocument ha	as been filed for
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NOTE: The Issue Fee and interest as shown by the r	I Publication Fee (if req ecords of the United Sta	uired) will not b tes Patent and T	e accepte Frademark	d from anyone other than to Office.	the applicant; a regi	stered a	attorney or agent; or th	e assignee	or other party in
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10/674,900	09/29/2003	Robert F. Bartfai	TUC920030109US1	4827			
35825 75	590 06/12/2009		EXAMINER				
LAW FIRM OF	DAN SHIFRIN	MYINT, DENNIS Y					
6208 Devinney Cir		ART UNIT	PAPER NUMBER				
ARVADA, CO 80	004		2162				

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 255 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 255 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Application No. Applicant(s) 10/674 900 BARTFALET AL. Notice of Allowability Examiner Art Unit DENNIS MYINT 2162 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. This communication is responsive to 05/14/2009. The allowed claim(s) is/are 1-3, 5-6, 14-16, 18-19, 22-24, and 26-27. 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) \square All b) ☐ Some* c) ☐ None of the: 1. T Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: _____. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. Notice of References Cited (PTO-892) 5. Notice of Informal Patent Application 2. Notice of Draftperson's Patent Drawing Review (PTO-948) Interview Summary (PTO-413), Paper No./Mail Date

U.S. Patent and Trademark Office PTOL-37 (Rev. 08-06)

Examiner, Art Unit 2162

/Dennis Myint/

Paper No./Mail Date

of Biological Material

Information Disclosure Statements (PTO/SB/08).

4. T Examiner's Comment Regarding Requirement for Deposit

7.

Examiner's Amendment/Comment

Primary Examiner, Art Unit 2162

Other .

/Jean B. Fleurantin/

8. X Examiner's Statement of Reasons for Allowance

Art Unit: 2162

DETAILED ACTION

Claims 1-29 were pending in this application. In the amendment filed on May 14, 2009, claims 7, 20, and 28 were incorporated into independent claims 1, 14, and 22.
 Claims 4, 8-13, 17, 21, 25, and 29 were cancelled. Claims 1, 5, 14, 18, 22, and 26 were amended. As such, claims 1-3, 5-6, 14-16, 18-19, 22-24, and 26-27 are currently pending. Claims 1, 14, and 22 are independent claims.

Drawings

2. Drawings filed on September 29, 2003, are accepted.

Specification

3. Specification filed on September 29, 2003, is considered and accepted.

Allowable Subject Matter

4. Claim 1-3, 5-6, 14-16, 18-19, 22-24, and 26-27 are allowed.

The following is the statement of reasons for allowance.

As per claim 1, the prior art of record (Milillo et al., (hereinafter "Milillo", U.S. Patent Number 6643671) in view of Asselin et al., (hereinafter "Asselin", "Implementing Concurrent Policy", IBM Document Number GG24-3990-00, December 1993) and further in view of Taylor (U.S. Patent Application Publication Number 2004/0220981)), alone or in combination, does not teach or fairly suggest the combination of steps as recited in the claim. Prior art of record does not teach the following limitations:

Art Unit: 2162

"d) deciding whether the attempt prepare the FlashCopy source volume is successful:

- e) reverting the FlashCopy operation if the preparation of the FlashCopy source volume is unsuccessful, whereby the prior consistency group is maintained in the FlashCopy target volumes"
 - f) repeating steps (c) through e) for each other FlashCopy source volume".

The dependent claims of claim 1, being definite, further limiting, and fully enabled by the specification, are also allowed.

As per claim 14, the prior art of record Milillo in view of Asselin and further in view of Taylor, alone or in combination, does not teach or fairly suggest the combination of steps as recited in the claim. Prior art of record does not teach the following limitations:

- "d) deciding whether the attempt prepare the FlashCopy source volume is successful;
- e) reverting the FlashCopy operation if the preparation of the FlashCopy source volume is unsuccessful, whereby the prior consistency group is maintained in the FlashCopy target volumes"
 - f) repeating steps (c) through e) for each other FlashCopy source volume".

The dependent claims of claim 14, being definite, further limiting, and fully enabled by the specification, are also allowed.

Art Unit: 2162

As per claim 22, the prior art of record Milillo in view of Asselin and further in view of Taylor, alone or in combination, does not teach or fairly suggest the combination of steps as recited in the claim. Prior art of record does not teach the following limitations:

- "d) deciding whether the attempt prepare the FlashCopy source volume is successful;
- e) reverting the FlashCopy operation if the preparation of the FlashCopy source volume is unsuccessful, whereby the prior consistency group is maintained in the FlashCopy target volumes"
 - f) repeating steps (c) through e) for each other FlashCopy source volume".

The dependent claims of claim 22, being definite, further limiting, and fully enabled by the specification, are also allowed.

Any comments considered necessary by applicant must submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reason for Allowance".

Art Unit: 2162

Contact Information

 Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dennis Myint whose telephone number is (571) 272-5629. The examiner can normally be reached on 8:30AM-5:30PM Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Breene can be reached on (571) 272-4107. The fax phone number for the organization where this application or proceeding is assigned is 571-273-5629.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Dennis Myint/ Examiner, Art Unit 2162

/Jean B. Fleurantin/ Primary Examiner, Art Unit 2162